CERTIFICATE OF ANALYSIS

Product Description	X-GAL
Product Number	X874
Lot Number	13L0874008
Storage Temperature	-20-0°C
Molecular Weight	408.63
Formula	$C_{14}H_{15}BrClNO_6$
CAS Number	7240-90-6

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in DMSO @ 10 mg/mL	Passes
Physical Appearance Color* Texture	 PM-1 to PM-4 Fine Powder, may form clumps	 PM-3 Off-White Fine Powder w/ Clumps
Solution Appearance Clarity Color	 Clear Colorless	 Clear Colorless
Average Time to Dissolve	For Information Only (Approx. 1 min)	1 min
Insolubles	None	Passes
Purity (by HPLC)	Minimum 99.0%	99.68%
FTIR	Conforms to Structure	Passes
Water Content (by KF)	For Information Only	0.22%

*Product color based upon comparisons between sample and standardized color wheel (Benjamin Moore® Color Preview™).

The material described in this certificate is synthetic. No animal- or plant-derived components were used in the manufacture of this product.

***Phyto*Technology Laboratories® provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. *Phyto*Technology Laboratories® shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

Recommended Shelf Life Date: July 2018

Gary Seckinger, Ph.D.

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